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**REMARKS**

Claims 1- 5, 7-20 and 29-34 are pending in the application.

Claim(s) 1-5, 11- 16 and 29-34 stand rejected in the referenced office action.

Claims 7-10 and 17-20 are objected to in the reference office action and would be allowable if rewritten as independent claims.

Independent claim 1 has been amended to include the substantive elements of claims 2 and 7. Claim 1 is now allowable.

Claims 2 and 7 have been canceled.

Dependent claim 9 has been combined into claim 8 and claim 9 has been canceled.

Claim 10 has been canceled.

Independent claim 11 has been amended to include the substantive elements of claims 12 and 17. Claim 11 is now allowable.

Claims 12 and 17 have been canceled.

Claims 13 has been canceled.

Claim 16 has been amended to clarify the claim language.

Claim 18 has been amended to include the substantive elements of claim 20.

Claims 19 and 20 have been canceled.

New independent claim 35 includes the substantive elements of original claims 1 and 8. Claim 35 is thus allowable over the prior art of record.

All the apparatus claims have been amended to make clear that what is claimed is an apparatus that is configured to perform certain operations.

New dependent claims 36- 39 include substantive elements of previously filed dependent claims.

New independent claim 40 includes the substantive elements of original claims 11 and 18. Claim 40 is thus allowable over the prior art of record.

New dependent claims 41-43 include substantive elements of previously filed dependent claims.

No new matter has been added by the amendments. Reconsideration of the application as amended is respectfully requested. The Examiner's rejections are addressed in substantially the same order as in the referenced office action.

#### **REJECTION UNDER 35 USC § 102**

Claims 1 - 5 are rejected under 35 U.S.C. § 102(b) as being anticipated by *Randall et al.* (Time Derived Sigma For Pulsed Neutron Capture Logging, 1981).

Claim 1 has been amended to include the substantive elements of claim 7 which has been indicated as being allowable. Accordingly, claims 1 and claims 3 -5, and 8 are patentable under 35 USC §§ 102-103 over *Randall* and the prior art of record.

#### **REJECTION UNDER 35 USC §103**

Claims 11 - 16 and 29 - 34 stand rejected under 35 U.S.C. §103(a) as being unpatentable over *Gray et al.*(US4,668,863) in view of *Randall et al.*

Independent claim 11 has been amended to include the substantive elements of claim 17 which has been indicated as being allowable. Accordingly, applicant respectfully submits that claim 11 and claims 14-16, 18, 29-34 are patentable under 35 U.S.C. §103(a) over *Gray et al.*(US4,668,863) in view of *Randall et al.*

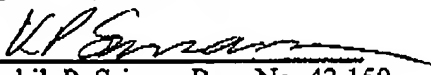
#### **NEW CLAIMS**

New claims 35 -43 are patentable under 35 USC §§ 102-103 over the prior art of record because the independent claims 35 and 40 include all the substantive elements of independent claims (1 and 8) and (11 and 18) respectively.

The Commissioner is hereby authorized to charge any fee due for these amendments to **Deposit Account No. 02-0429 (584-35673)**

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Respectfully submitted,

  
Kaushik P. Sriram, Reg. No. 43,150  
Madan, Mossman & Sriram, P.C.  
2603 Augusta Suite 700  
Houston, Texas 77057-5638  
713 266 1130 x 121  
Attorney For Applicants